

Fri Sep 24 08:32:26 2004

us-10-072-809b-8.ra1

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OM protein - protein search, using sw model

Run on: September 23, 2004, 18:25:25 ; Search time 32 Seconds  
(without alignments)  
75.826 Million cell updates/sec

Title: US-10-072-809B-8

Perfect score: 274  
Sequence: 1 RECKTESNTPFGICTKTPKC.....KFTDGHCSKILRRLCTKPC 47

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents\_AA:\*  
1: /cgn2\_6/prodata/2/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/prodata/2/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/prodata/2/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/prodata/2/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/prodata/2/1aa/PCTUS.COMB.pep:\*  
6: /cgn2\_6/prodata/2/1aa/backfil1es1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	185	67.5	188	6	5175095-3
2	121	44.2	47	1	US-08-377-687-28
3	121	44.2	47	1	US-08-656-318A-13
4	121	44.2	47	2	US-08-777-192-28
5	121	44.2	47	2	US-08-956-459-13
6	121	44.2	47	3	US-08-971-982-28
7	116	42.3	74	4	US-09-442-631-4
8	113	41.2	75	1	US-08-289-458-2
9	113	41.2	75	2	US-08-761-549-2
10	113	41.2	75	3	US-09-127-646-2
11	113	41.2	83	4	US-09-442-631-2
12	107.5	39.2	83	1	US-08-377-687-29
13	99	36.1	48	1	US-08-656-318A-11
14	99	36.1	48	2	US-08-777-192-29
15	99	36.1	48	2	US-08-956-459-11
16	99	36.1	48	3	US-08-971-982-29
17	97	35.4	47	4	US-09-077-851-21
18	90.5	33.0	51	4	US-09-077-851-61
19	88.5	32.3	51	4	US-09-077-851-25
20	88.5	32.3	51	4	US-09-077-851-46
21	88.5	32.3	51	4	US-09-077-851-66
22	88.5	32.3	51	4	US-09-077-851-76
23	88	32.1	47	1	US-08-377-687-30
24	88	32.1	47	1	US-08-656-318A-12
25	88	32.1	47	2	US-08-777-192-30
26	88	32.1	47	2	US-08-956-459-12
27	88	32.1	47	3	US-08-971-982-30

28	86.5	31.6	51	4	US-09-077-951-26	Sequence 26, Appl
29	86.5	31.2	46	3	US-08-632-511A-5	Sequence 5, Appl
30	86.5	31.2	46	3	US-09-091-590A-11	Sequence 11, Appl
31	85.5	31.2	46	4	US-09-488-200-5	Sequence 5, Appl
32	85.5	31.2	51	1	US-08-377-687-19	Sequence 19, Appl
33	85.5	31.2	51	1	US-08-656-318A-3	Sequence 18, Appl
34	85.5	31.2	51	1	US-08-627-706-18	Sequence 18, Appl
35	85.5	31.2	51	2	US-08-777-192-19	Sequence 19, Appl
36	85.5	31.2	51	2	US-08-956-459-3	Sequence 3, Appl
37	85.5	31.2	51	3	US-08-971-982-19	Sequence 19, Appl
38	85.5	31.2	51	3	US-09-103-489-18	Sequence 18, Appl
39	85.5	31.2	51	4	US-09-077-851-8	Sequence 8, Appl
40	85.5	31.2	51	4	US-09-077-851-28	Sequence 28, Appl
41	85.5	31.2	51	4	US-09-077-851-57	Sequence 57, Appl
42	85.5	31.2	51	4	US-09-077-951-34	Sequence 34, Appl
43	85.5	31.2	51	4	US-09-829-381D-18	Sequence 18, Appl
44	85.5	31.2	51	4	US-09-589-733C-22	Sequence 22, Appl
45	85.5	31.2	74	1	US-08-543-238-5	Sequence 5, Appl

#### ALIGNMENTS

RESULT 1  
5175095-3  
; Patent No. 5175095  
; APPLICANT: Martineau, Belinda M., Houck, Catherine M.  
; TITLE OF INVENTION: OVARY TISSUE TRANSCRIPTIONAL FACTORS  
; NUMBER OF SEQUENCES: 9  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/554,195  
; FILING DATE: 17-JUL-1990  
; SEQ ID NO: 3:  
; LENGTH: 188  
5175095-3

Query Match 67.5%; Score 185; DB 6; Length 188;  
Best Local Similarity 66.7%; Pred. No. 1.5e-14;  
Matches 30; Conservative 3; Mismatches 12; Indels 0; Gaps 0;

QY 3 CKTESNTPFGICTKTPKCACISKFTDGHCSKILRRLCTKPC 47  
Db 42 CKAPSOTFGLCFMDSCKRYCIKKEFTGHCCKLORCKLCTKPC 86

RESULT 2  
US-08-377-687-28  
; Sequence 28, Application US/08377687  
; Patent No. 5538525

GENERAL INFORMATION:  
APPLICANT: BROEKERT, WILLEM F.  
APPLICANT: CAMMIE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
APPLICANT: TERPRAAS, FRANKY R.G.  
APPLICANT: VANDERLEYDEN, JOZEF  
TITLE OF INVENTION: BIOCIDAL PROTEINS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN DABRY & CUSHMAN  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/377,687  
FILING DATE:

CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/002,480  
FILING DATE: 04-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-861-3000  
TELEFAX: 202-822-0944  
INFORMATION FOR SEQ ID NO: 28:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-377-687-28

Query Match 44.2%; Score 121; DB 1; Length 47;  
Best Local Similarity 42.6%; Pred. No. 1.3e-07;  
Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

QY 1 RECKTESNTPFGICITKPPCKKACISEKFTDGHCSKILRCLCTKPC 47  
DB 1 RHCELSHRFKGPCTRDSNCASVCETERFSGNCHGFRRCFCCTKPC 47

RESULT 3  
US-08-656-318A-13  
Sequence 13, Application US/08656318A  
Patent No. 5750504  
GENERAL INFORMATION:  
APPLICANT: BROEKERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN DABRY & CUSHMAN  
ADDRESS: Intellectual Property Group of  
ADDRESSEE: PILSBURY WADSWON & SUTRO LLP  
STREET: 1100 New York Avenue, N.W.  
CITY: Washington  
STATE: D. C.  
COUNTRY: U.S.A.  
ZIP: 20005-3918  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/656,318A  
FILING DATE: 12-JUN-1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: GB 9326424.0  
FILING DATE: 24-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB94/02766  
FILING DATE: 19-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 224199/SEE37925/UST  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 861-3075  
TELEFAX: (202) 822-0944  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:

LENGTH: 47 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
ORGANISM: p322  
US-08-656-318A-13

Query Match 44.2%; Score 121; DB 1; Length 47;  
Best Local Similarity 42.6%; Pred. No. 1.3e-07;  
Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

QY 1 RECKTESNTPFGICITKPPCKKACISEKFTDGHCSKILRCLCTKPC 47  
DB 1 RHCELSHRFKGPCTRDSNCASVCETERFSGNCHGFRRCFCCTKPC 47

RESULT 4  
US-08-777-192-28  
Sequence 28, Application US/08777192  
Patent No. 5624869  
GENERAL INFORMATION:  
APPLICANT: BROEKERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
APPLICANT: TERPES, FRANKY R.G.  
APPLICANT: VANDERLEIJZEN, JOZEF  
TITLE OF INVENTION: BIOCIDAL PROTEINS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN DABRY & CUSHMAN  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/777,192  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/002,480  
FILING DATE: 04-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-861-3000  
TELEFAX: 202-822-0944  
INFORMATION FOR SEQ ID NO: 28:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-777-192-28

Query Match 44.2%; Score 121; DB 2; Length 47;  
Best Local Similarity 42.6%; Pred. No. 1.3e-07;  
Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

QY 1 RECKTESNTPFGICITKPPCKKACISEKFTDGHCSKILRCLCTKPC 47  
DB 1 RHCELSHRFKGPCTRDSNCASVCETERFSGNCHGFRRCFCCTKPC 47

RESULT 5  
US-08-956-459-13  
Sequence 13, Application US/08956459  
Patent No. 5919918  
GENERAL INFORMATION:  
APPLICANT: BROEKERT, WILLEM F.  
APPLICANT: CAMUTE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: PILLSBURY MADISON & SUTRO LLP  
STREET: 1100 New York Avenue, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005-3918  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/956,459  
FILING DATE: 22-OCT-1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/656,318  
FILING DATE: 12-JUN-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/SB94/02766  
FILING DATE: 19-DEC-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: GB 9326424.0  
FILING DATE: 24-DEC-1993  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
ORGANISM: p322  
US-08-956-459-13

Query Match 44.2%; Score 121; DB 2; Length 47;  
Best Local Similarity 42.6%; Pred. No. 1.3e-07;  
Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

QY 1 RECKTESNTPFGICITKPPCKRACISEKFTDGHCSKILRRLCTKPC 47  
DB 1 RHCESLSHRFKGPCTRDSCNASCVCETERFSGCNCHGRRRCFCCTKPC 47

RESULT 6  
US-08-971-982-28  
Sequence 28, Application US/08971982  
Patent No. 6187904  
GENERAL INFORMATION:  
APPLICANT: BROEKERT, WILLEM F.  
APPLICANT: CAMUTE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
APPLICANT: REES, FRANKY R.G.  
APPLICANT: VANDERLEYDEN, JOZEF  
TITLE OF INVENTION: BIOCIDAL PROTEINS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN DAREY & CUSHMAN

STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/971,982  
FILING DATE: 17-NOV-1997  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/002,480  
FILING DATE: 04-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 93042/SEE 36525/US/A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-861-3000  
TELEFAX: 202-822-0944  
INFORMATION FOR SEQ ID NO: 28:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 28:  
US-08-971-982-28

Query Match 44.2%; Score 121; DB 3; Length 47;  
Best Local Similarity 42.6%; Pred. No. 1.3e-07;  
Matches 20; Conservative 7; Mismatches 20; Indels 0; Gaps 0;

QY 1 RECKTESNTPFGICITKPPCKRACISEKFTDGHCSKILRRLCTKPC 47  
DB 1 RHCESLSHRFKGPCTRDSCNASCVCETERFSGCNCHGRRRCFCCTKPC 47

RESULT 7  
US-09-442-631-4  
Sequence 4, Application US/09442631  
Patent No. 6300489  
GENERAL INFORMATION:  
APPLICANT: OH, BOUNG-JUN  
APPLICANT: KO, MOON KYUNG  
APPLICANT: SHIN, BYONGCHUL  
APPLICANT: CHUNG, CHANG HO  
TITLE OF INVENTION: SMALL- AND CYSTEINE RICH ANTIFUNGAL DEFENSIN AND  
TITLE OF INVENTION: THIONIN-LIKE PROTEIN GENES HIGHLY EXPRESSED IN THE  
FILE REFERENCE: 1942/44  
CURRENT APPLICATION NUMBER: US/09/442,631  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO: 4  
LENGTH: 74  
TYPE: PRT  
ORGANISM: Capsicum annuum  
US-09-442-631-4

Query Match 42.3%; Score 116; DB 4; Length 74;  
Best Local Similarity 42.2%; Pred. No. 7.8e-07;  
Matches 19; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 3 CKTESNTPFGICITKPPCKRACISEKFTDGHCSKILRRLCTKPC 47  
DB 29 CEALSGNFKGLCLISRDGCVCRBSGFTDGSCTGRRLCFCCTKPC 73

RESULT 8  
US-08-289-458-2  
; Sequence 2, Application US/08289458  
; Patent No. 5608144  
; GENERAL INFORMATION:  
; APPLICANT: BADEN, Catherine S., DUNSMUIR, Pamela,  
; APPLICANT: LEE, Kathleen Y.  
; TITLE OF INVENTION: PLANT Gp2 PROMOTERS AND USES THEREOF  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Kourie and Crew  
; STREET: Steuart Street Tower, One Market Plaza  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: US  
; ZIP: 94105-1493  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/289,458  
; FILING DATE:  
; CLASSIFICATION: 800  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Dow, Karen B.  
; REGISTRATION NUMBER: 29,684  
; REFERENCE/DOCKET NUMBER: 12176-4  
; TELEPHONE: (415) 543-9600  
; TELEFAX: (415) 543-5043  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 75 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-289-458-2  
Query Match 41.2%; Score 113; DB 1; Length 75;  
Best Local Similarity 40.0%; Pred. No. 1.8e-06;  
Matches 18; Conservative 6; Mismatches 21; Indels 0; Gaps 0;  
QY 3 CKTESNFPGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 30 CEALTGNFKGLCLSSRDGNCVCRREGFTDGSICIGFRLQCFCTKPC 74  
RESULT 9  
US-08-761-549-2  
; Sequence 2, Application US/08761549  
; Patent No. 5981727  
; GENERAL INFORMATION:  
; APPLICANT: BADEN, Catherine S., DUNSMUIR, Pamela,  
; APPLICANT: LEE, Kathleen Y.  
; TITLE OF INVENTION: PLANT Gp2 PROMOTERS AND USES THEREOF  
; NUMBER OF SEQUENCES: 12  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Kourie and Crew  
; STREET: Steuart Street Tower, One Market Plaza  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: US  
; ZIP: 94105-1493  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/289,458  
; FILING DATE:  
; CLASSIFICATION: 800  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Dow, Karen B.  
; REGISTRATION NUMBER: 29,684  
; REFERENCE/DOCKET NUMBER: 12176-4  
; TELEPHONE: (415) 543-9600  
; TELEFAX: (415) 543-5043  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 75 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-289-458-2  
Query Match 41.2%; Score 113; DB 1; Length 75;  
Best Local Similarity 40.0%; Pred. No. 1.8e-06;  
Matches 18; Conservative 6; Mismatches 21; Indels 0; Gaps 0;  
QY 3 CKTESNFPGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 30 CEALTGNFKGLCLSSRDGNCVCRREGFTDGSICIGFRLQCFCTKPC 74

RESULT 10  
US-09-127-646-2  
; Sequence 2, Application US/09127646  
; Patent No. 6291744  
; GENERAL INFORMATION:  
; APPLICANT: BADEN, Catherine S.  
; APPLICANT: Dunsmuir, Pamela  
; APPLICANT: Lee, Kathleen Y.  
; APPLICANT: DNA Plant Technology Corporation  
; TITLE OF INVENTION: Nucleic Acids Encoding Plant Group 2 Proteins and Uses  
; TITLE OF INVENTION: Thereof  
; FILE REFERENCE: 012176-004020US  
; CURRENT APPLICATION NUMBER: US/09/127,646  
; CURRENT FILING DATE: 1998-07-31  
; EARLIER APPLICATION NUMBER: US 08/289,458  
; EARLIER FILING DATE: 1994-08-12  
; EARLIER APPLICATION NUMBER: US 08/761,549  
; EARLIER FILING DATE: 1996-12-06  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 75  
; TYPE: PRT  
; ORGANISM: Capsicum annuum  
US-09-127-646-2  
Query Match 41.2%; Score 113; DB 3; Length 75;  
Best Local Similarity 40.0%; Pred. No. 1.8e-06;  
Matches 18; Conservative 6; Mismatches 21; Indels 0; Gaps 0;  
QY 3 CKTESNFPGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 30 CEALTGNFKGLCLSSRDGNCVCRREGFTDGSICIGFRLQCFCTKPC 74  
RESULT 11  
US-09-442-631-2  
; Sequence 2, Application US/09442631  
; Patent No. 6300489  
; GENERAL INFORMATION:  
; APPLICANT: OH, BOUNG-JUN  
; APPLICANT: KO, MOON KYUNG  
; APPLICANT: SHIN, BYONGCHUL

APPLICANT: CHUNG, CHANG HO  
TITLE OF INVENTION: SMALL AND CYSTEINE RICH ANTIFUNGAL DEFENSIN AND  
TITLE OF INVENTION: THIONIN-LIKE PROTEIN GENES HIGHLY EXPRESSED IN THE  
TITLE OF INVENTION: INCOMPATIBLE INTERACTION  
FILE REFERENCE: 1942/44  
CURRENT APPLICATION NUMBER: US/09/442,631  
CURRENT FILING DATE: 1999-11-18  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: Patent in Ver. 2.0  
SEQ ID NO 2  
LENGTH: 83  
TYPE: PRT  
ORGANISM: Capsicum annuum  
US-09-442-631-2

Query Match 39.2%; Score 107.5; DB 4; Length 83;  
Best Local Similarity 50.0%; Pred. No. 8.7e-06;  
Matches 20; Conservative 5; Mismatches 14; Indels 1; Gaps 1;

Qy 9 TFGICITKPCRKACI-SEKFTDGHCSKILRRCLCTKPC 47  
Db 33 TKPVKSSDPLCQKLCMEKEIEDGHCFITLSKCLCMKRC 72

RESULT 12  
US-08-377-687-29  
; Sequence 29, Application US/08377687  
; Patent No. 5538525  
; GENERAL INFORMATION:  
; APPLICANT: BROEKAERT, WILLEM F.  
; APPLICANT: CAMMUE, BRUNO P.A.  
; APPLICANT: OSBORN, RUPERT W.  
; APPLICANT: REES, SARAH B.  
; APPLICANT: TERRAS, FRANKY R.G.  
; APPLICANT: VANDERLEYDEN, JOZEF  
; TITLE OF INVENTION: BIOCIDAL PROTEINS  
; NUMBER OF SEQUENCES: 59  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CUSHMAN DABBY & CUSHMAN  
; STREET: 1100 NEW YORK AVENUE, N.W.  
; CITY: WASHINGTON  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20005  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/377,687  
; FILING DATE:  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/002,480  
; FILING DATE: 04-JAN-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KOKULIS, PAUL N.  
; REGISTRATION NUMBER: 16,773  
; REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-861-3000  
; TELEFAX: 202-822-0944  
; INFORMATION FOR SEQ ID NO: 29:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 48 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-377-687-29

Query Match 36.1%; Score 99; DB 1; Length 48;

Best Local Similarity 31.9%; Pred. No. 5.1e-05;  
Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;  
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Db 1 RVCWGSAGFKGLCMRDQNCQAQVCLQEGWGGGNCDDGVNRQCKIRQC 47  
RESULT 13  
US-08-656-318A-11  
; Sequence 11, Application US/08656318A  
; Patent No. 5750504  
; GENERAL INFORMATION:  
; APPLICANT: BROEKAERT, WILLEM F.  
; APPLICANT: CAMMUE, BRUNO P.A.  
; APPLICANT: OSBORN, RUPERT W.  
; APPLICANT: REES, SARAH B.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; NUMBER OF SEQUENCES: 13  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CUSHMAN DABBY & CUSHMAN  
; ADDRESSEE: Intellectual Property Group of  
; ADDRESSEE: PILLSBURY WADISON & SUTRO LLP  
; STREET: 1100 NEW YORK AVENUE, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20005-3918  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/656,318A  
; FILING DATE: 12-JUN-1996  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: GB 9326424.0  
; FILING DATE: 24-DEC-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/GB94/02766  
; FILING DATE: 19-DEC-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: KOKULIS, PAUL N.  
; REGISTRATION NUMBER: 16,773  
; REFERENCE/DOCKET NUMBER: 224199/SEE37925/UST  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 861-3075  
; TELEFAX: (202) 822-0944  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 48 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; ORIGINAL SOURCE:  
; ORGANISM: Sia3  
US-08-656-318A-11

Query Match 36.1%; Score 99; DB 1; Length 48;  
Best Local Similarity 31.9%; Pred. No. 5.1e-05;  
Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;

Qy 1 RECKTESNTFFGICITKPCRKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 1 RVCWGSAGFKGLCMRDQNCQAQVCLQEGWGGGNCDDGVNRQCKIRQC 47

RESULT 14  
US-08-777-192-29  
; Sequence 29, Application US/08777192

Patent No. 5824869  
GENERAL INFORMATION:  
APPLICANT: BROEKAERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
APPLICANT: TERRAS, SARAH B.  
APPLICANT: VANDERLEYDEN, JOZEF  
TITLE OF INVENTION: BIOTICIDAL PROTEINS  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CUSHMAN DARRY & CUSHMAN  
STREET: 1100 NEW YORK AVENUE, N.W.  
CITY: WASHINGTON  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/777,192  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/002,480  
FILING DATE: 04-JAN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: KOKULIS, PAUL N.  
REGISTRATION NUMBER: 16,773  
REFERENCE/DOCKET NUMBER: 99042/SEE.36525/US/A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-861-3000  
TELEFAX: 202-822-0944  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 48 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-777-192-29

Query Match 36.1%; Score 99; DB 2; Length 48;  
Best Local Similarity 31.9%; Pred. No. 5.1e-05;  
Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;

QY 1 RECKTESNTPPGICITKPCRKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 1 RVCWKSAGFKGLCMRDQNCQAQVCLQEGWGGGNCDDGVNRQCKCIRQC 47

RESULT 15  
US-08-956-459-11  
Sequence 11, Application US/08956459  
Patent No. 5919918  
GENERAL INFORMATION:  
APPLICANT: BROEKAERT, WILLEM F.  
APPLICANT: CAMMUE, BRUNO P.A.  
APPLICANT: OSBORN, RUPERT W.  
APPLICANT: REES, SARAH B.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
NUMBER OF SEQUENCES: 13  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: PILLSBURY MADISON & SUTRO LLP  
STREET: 1100 New York Avenue, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20005-3918  
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Microsoft Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/956,459  
FILING DATE: 22-OCT-1996  
CLASSIFICATION: 800  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/656,318  
FILING DATE: 12-JUN-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/GB94/02766  
FILING DATE: 19-DEC-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: GB 9326424.0  
FILING DATE: 24-DEC-1993  
INFORMATION FOR SEQ ID NO: 11:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 48 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
ORIGINAL SOURCE:  
ORGANISM: S1a3  
US-08-956-459-11

Query Match 36.1%; Score 99; DB 2; Length 48;  
Best Local Similarity 31.9%; Pred. No. 5.1e-05;  
Matches 15; Conservative 11; Mismatches 21; Indels 0; Gaps 0;

QY 1 RECKTESNTPPGICITKPCRKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 1 RVCWKSAGFKGLCMRDQNCQAQVCLQEGWGGGNCDDGVNRQCKCIRQC 47

Search completed: September 23, 2004, 19:01:42  
Job time : 33 secs

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OM protein - protein search, using sw model

Run on: September 23, 2004, 18:55:30 ; Search time 128 Seconds  
(without alignments)  
118.072 Million cell updates/sec

Title: US-10-072-809B-8  
Perfect score: 274  
Sequence: 1 RECKTESNTFPGICITKPPC.....KFTDGHCSKILRRCLCTKPC 47

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1349238 seqs, 321558718 residues

Total number of hits satisfying chosen parameters: 1349238

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
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12: /cgn2\_6/ptodata/2/pubpaa/US09C\_NEW\_PUB.pep.\*  
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17: /cgn2\_6/ptodata/2/pubpaa/US40\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	274	100.0	47	US-10-072-809A-8	Sequence 8, Appl
2	274	100.0	72	US-10-072-809A-14	Sequence 14, Appl
3	274	100.0	80	US-10-072-809A-16	Sequence 16, Appl
4	274	100.0	105	US-10-072-809A-18	Sequence 18, Appl
5	272	99.3	47	US-10-072-809A-25	Sequence 25, Appl
6	272	99.3	105	US-10-072-809A-20	Sequence 20, Appl
7	264	96.4	105	US-10-072-809A-51	Sequence 51, Appl
8	237	86.5	106	US-10-072-809A-52	Sequence 52, Appl
9	208	75.9	79	US-10-072-809A-50	Sequence 50, Appl
10	185	67.5	47	US-10-072-809A-26	Sequence 26, Appl
11	185	67.5	105	US-10-072-809A-21	Sequence 21, Appl
12	145	52.9	47	US-10-178-213-278	Sequence 278, App
13	145	52.9	78	US-10-178-213-278	Sequence 278, App
14	140	51.1	68	US-10-437-963-149203	Sequence 149203,
15	139	50.7	47	US-10-178-213-84	Sequence 84, Appl

16	139	50.7	78	14	US-10-178-213-83	Sequence 83, Appl
17	138	50.4	81	16	US-10-437-963-174312	Sequence 174312,
18	136	49.6	47	14	US-10-178-213-87	Sequence 87, Appl
19	136	49.6	78	14	US-10-178-213-86	Sequence 86, Appl
20	135	49.3	47	14	US-10-178-213-291	Sequence 291, App
21	135	49.3	75	14	US-10-178-213-290	Sequence 290, App
22	134	48.9	47	14	US-10-178-213-3	Sequence 3, Appl
23	134	48.9	74	14	US-10-178-213-2	Sequence 2, Appl
24	133	48.5	78	16	US-10-437-963-167558	Sequence 167558,
25	133	48.5	78	16	US-10-437-963-167559	Sequence 167559,
26	132	48.2	47	14	US-10-178-213-294	Sequence 294, App
27	132	48.2	47	14	US-10-178-213-414	Sequence 414, App
28	132	48.2	47	14	US-10-178-213-444	Sequence 444, App
29	132	48.2	72	14	US-10-178-213-413	Sequence 413, App
30	132	48.2	78	14	US-10-178-213-433	Sequence 433, App
31	132	48.2	79	14	US-10-178-213-293	Sequence 293, App
32	131	47.8	79	12	US-10-424-599-228130	Sequence 228130,
33	129	47.1	47	14	US-10-178-213-408	Sequence 408, App
34	129	47.1	77	14	US-10-178-213-407	Sequence 407, App
35	128	46.7	675	16	US-10-437-963-189872	Sequence 189872,
36	127	46.4	52	14	US-10-178-213-123	Sequence 123, App
37	127	46.4	52	14	US-10-178-213-126	Sequence 126, App
38	127	46.4	64	14	US-10-178-213-122	Sequence 122, App
39	127	46.4	79	14	US-10-178-213-125	Sequence 125, App
40	126	46.0	47	14	US-10-178-213-309	Sequence 309, App
41	126	46.0	77	14	US-10-178-213-308	Sequence 308, App
42	125	45.6	77	16	US-10-767-701-40997	Sequence 40997, A
43	124	45.3	47	14	US-10-178-213-387	Sequence 387, App
44	124	45.3	84	12	US-10-424-599-156998	Sequence 156998,
45	124	45.3	84	14	US-10-178-213-386	Sequence 386, App

ALIGNMENTS

RESULT 1  
US-10-072-809A-8  
; Sequence 8, Application US/10072809A  
; Publication No. US20030217382A1  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.  
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and  
; TITLE OF INVENTION: therefor  
; FILE REFERENCE: 18-01  
; CURRENT APPLICATION NUMBER: US/10/072,809A  
; PRIOR FILING DATE: 2002-09-12  
; PRIOR APPLICATION NUMBER: USSN 60/267,271  
; PRIOR FILING DATE: 2001-02-08  
; NUMBER OF SEQ ID NOS: 61  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 8  
; LENGTH: 47  
; TYPE: PRT  
; ORGANISM: Nicotiana glauca  
US-10-072-809A-8

Query Match 100.0%; Score 274; DB 15; Length 47;  
Best Local Similarity 100.0%; Pred. No. 4.2e-25;  
Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RECKTESNTFPGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC 47  
Db 1 RECKTESNTFPGICITKPPCKACISEKFTDGHCSKILRRCLCTKPC 47

RESULT 2  
US-10-072-809A-14  
; Sequence 14, Application US/10072809A  
; Publication No. US20030217382A1  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.  
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and  
; TITLE OF INVENTION: therefor





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; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; PRIOR FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 51
; LENGTH: 105
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-51

Query Match      96.4%; Score 264; DB 15; Length 105;
Best Local Similarity 93.6%; Pred. No. 1.4e-23;
Matches 44; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

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RESULT 8
US-10-072-809A-52
; Sequence 52, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 52
; LENGTH: 106
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-52

Query Match      86.5%; Score 237; DB 15; Length 106;
Best Local Similarity 86.7%; Pred. No. 2.2e-20;
Matches 39; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

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RESULT 9
US-10-072-809A-50
; Sequence 50, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 50
; LENGTH: 79
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-50

Query Match      75.9%; Score 208; DB 15; Length 79;
Best Local Similarity 78.7%; Pred. No. 4.4e-17;
Matches 37; Conservative 1; Mismatches 7; Indels 2; Gaps 1;

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RESULT 10
US-10-072-809A-26
; Sequence 26, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 26
; LENGTH: 47
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-26

Query Match      67.5%; Score 185; DB 15; Length 47;
Best Local Similarity 66.7%; Pred. No. 1.4e-14;
Matches 30; Conservative 3; Mismatches 12; Indels 0; Gaps 0;

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Db 3 CKAPSQTFFGLCFWDSCKRYCIKEKFTGHCCKLQKCLCTKPC 47
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RESULT 11
US-10-072-809A-21
; Sequence 21, Application US/10072809A
; Publication No. US20030217382A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, Marilyn, A., Lay, Fung T., Heath, Robyn, L.
; TITLE OF INVENTION: Plant-derived molecules and genetic sequences encoding same and
; TITLE OF INVENTION: therefor
; FILE REFERENCE: 18-01
; CURRENT APPLICATION NUMBER: US/10/072,809A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: USSN 60/267,271
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 21
; LENGTH: 105
; TYPE: PRT
; ORGANISM: peptide
US-10-072-809A-21

Query Match      67.5%; Score 185; DB 15; Length 105;
Best Local Similarity 66.7%; Pred. No. 3e-14;
Matches 30; Conservative 3; Mismatches 12; Indels 0; Gaps 0;

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RESULT 12
US-10-178-213-279
; Sequence 279, Application US/10178213
; Publication No. US20030041348A1
; GENERAL INFORMATION:
; APPLICANT: Simmons, Carl R.
; APPLICANT: Navarro Acevedo, Pedro A.
; APPLICANT: Hartwell, Leslie
; APPLICANT: Canoon, Rebecca
; APPLICANT: McCutchen, Billy Fred
; APPLICANT: Lu, Albert
; APPLICANT: Herrmann, Rafael
; APPLICANT: Wong, James
; TITLE OF INVENTION: Defensin Polynucleotides and Methods of
; TITLE OF INVENTION: Use
; FILE REFERENCE: 35718/246703
; CURRENT APPLICATION NUMBER: US/10/178,213
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/300,152
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/300,241
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 469
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 279
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-10-178-213-279

Query Match 52.9%; Score 145; DB 14; Length 47;
Best Local Similarity 48.9%; Pred. No. 7.2e-10;
Matches 23; Conservative 8; Mismatches 16; Indels

QY 1 RECKTESNTPFGICITKPPCKKACISKFKPDGHCskILRCLCTKPC 47
Db 1 RVCEFTSPFRFGICVWGTCNANTCLTEGFTSGKCSGLKCKICTKPC 47

```

```

RESULT 13
US-10-178-213-278
; Sequence 278, Application US/10178213
; Publication No. US20030041348A1
; GENERAL INFORMATION:
; APPLICANT: Simmons, Carl R.
; APPLICANT: Navarro Acevedo, Pedro A.
; APPLICANT: Harvell, Leslie
; APPLICANT: Cahoon, Rebecca
; APPLICANT: McCutchen, Billy Fred
; APPLICANT: Lu, Albert
; APPLICANT: Herrmann, Rafael
; APPLICANT: Wong, James
; TITLE OF INVENTION: Defensein Polynucleotides and Methods of
; FILE REFERENCE: 35718/246703
; CURRENT APPLICATION NUMBER: US/10/178,213
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/300,152
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/300,241
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 469
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 278
; LENGTH: 78
; TYPE: PRT
; ORGANISM: Triticum aestivum
US-10-178-213-278

```

Query Match 52.9%; Score 145; DB 14; Length 78;  
Best Local Similarity 48.9%; Pred. No. 1.2e-09;  
Matches 23; Conservative 8; Mismatches 16; Indels

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Qy      1 RECKTESNTFFGICITPPCRKACISKEFTDGHCSKILRRCLCTKPC 47
       ||:||:|||||::|||::|||::|||::|||::|||::|||::|||
Db     32 RVCETDSTRFKGCMVGTNCANICLTBGTSGKSGLKRKCICKPC 78

RESULT 14
US-10-437-963-149203
; Sequence 149203, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yinhua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Mole
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improve
; FILE REFERENCE: 39-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 149203
; LENGTH: 68
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MR_4530_4955C.1.rep
US-10-437-963-149203

```

```

Query Match      51.1%; Score 140; DB 16; Length 68;
Best Local Similarity 48.9%; Pred. No. 4e-09;
Matches 23; Conservative 7; Mismatches 17; Indels

QY 1 RECKTSNTPPGICITKPPKACISEKKTGDGHCISKILARCCTKPC 47
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 22 REGETTNEFKGHCHMVANVCALTEGSGGKSGFRFRRCMTKDC 68
    |||  |||  |||  |||  |||  |||  |||  |||  |||  |||

```

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RESULT 15
US-10-178-213-84
; Sequence 84, Application US/10178213
; Publication No. US20030041348A1
; GENERAL INFORMATION:
; APPLICANT: Simmons, Carl R.
; APPLICANT: Navarro Acevedo, Pedro A.
; APPLICANT: Harvell, Leslie
; APPLICANT: Cahoon, Rebecca
; APPLICANT: McCutchen, Billy Fred
; APPLICANT: Lu, Albert
; APPLICANT: Herrmann, Rafael
; APPLICANT: Wong, James
; TITLE OF INVENTION: Defensein Polynucleotides and Methods of
; FILE REFERENCE: 35718/246703
; CURRENT APPLICATION NUMBER: US/10/178,213
; CURRENT FILING DATE: 2002-06-21
; PRIOR APPLICATION NUMBER: 60/300,152
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/300,241
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 469
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 84
; LENGTH: 47
; TYPE: PRT
; ORGANISM: Beta vulgaris
US-10-178-213-84

```

Query Match 50.7%; Score 139; DB 14; Length 47;  
Best Local Similarity 48.9%; Pred. No. 3.7e-09;

Matches 23; Conservative 6; Mismatches 18; Indels 0; Gaps 0;

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>y 1 RECKTESNTPPGICITKPPCKKACISEKFTDGHCSKILARCLCTKPC 47
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>b 1 RTCMTPSHQPRGICVSRNCESACHTERPPGGTCOGFRRRCNCTKPC 47
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Search completed: September 23, 2004, 19:12:10  
 Job time : 129 secs